"ASPHALTING OF BALANCE ROADS AT MUNESHWARA LAYOUT IN WARD NO 03 OF YELAHANKA SATELLITE TOWN SUB DIVISION"

Quality Control Reports

First & Final Bill

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

E OF WORK: Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite ub.

	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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	RCC(M15)	Compressive Strength(7days and 28days)	7 set /100-200 cum	191.46	14	14
	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
2	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
3	TACK COAT	Rate of spread	One Test		1	1

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-28-34** **Date: 24-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
Agency	:	Sri. Rajeswaren Satheesh, Satya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/20/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2,3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Sourdness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-06-2022
Environmental Conditions duriag test	:	Temperature: 26°C Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Sourdness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-09-28-34 **Date: 20-07-2022**
Customer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	22-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
SLNo.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-09-28-34 **Date: 23-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka. Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-09-28-34 Date: 23-06-2022

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

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TEST REPORT OF FINE AGGREGATE

: CP-2022-09-28-34

Date: 23-06-2022

CAL PROPERTIES

Tests	Result	Requirements as per IS 383:2016
Water Absorption(%)	1.22	–
Specific Gravity	2.55	–
Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

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TEST REPORT OF PRECAST COVER SLAB

	:	CP-2022-09-28-34
		Date: 29-06-2022
ıer	:	Assistant Executive Engineer, Yelhanka satellite Sub Division, BBMP, Bangalore.
s	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Name	:	Asphalting of Balance roads at Muneshwara Layout in ward No-03 of Yelahanka satellite town sub Division.
	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
ner's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
: of Sample	:	Sample supplied by Agency
le Condition	:	Satisfactory
f Receipt	:	25-06-2022
le Type /Size	:	Precast Cover Slab -100mm Thick
ence to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
of test	:	25/06/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ıe results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-09-28-34
		Date: 04/07/2022
r	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
er's Reference	:	BBMP/EE/YNK.D/EPMT-I/W.O/20/2022-23
of Sample	:	Sample supplied by Agency
Condition	:	Satisfactory
f Receipt	:	29-06-2022
ner ID	:	Drain Bottom Raft-Muneshwara Layout 4th Cross Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
of test	:	04/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-Muneshwara Layout 4th Cross Road	M20	27/06/2022	04/07/2022	149.87 X 150.63 X 151.43	22574	8.328	417.8	18.5	18.2
Drain Bottom Raft-Muneshwara Layout 4th Cross Road	M20	27/06/2022	04/07/2022	149.94 X 150.92 X 151.16	22629	8.965	408.0	18.0	
Drain Bottom Raft-Muneshwara Layout 4th Cross Road	M20	27/06/2022	04/07/2022	151.19 X 151.45 X 150.96	22898	8.146	413.7	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-09-28-34
		Date: 05/07/2022
r	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
er's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
of Sample	:	Sample supplied by Agency
e Condition	:	Satisfactory
f Receipt	:	30-06-2022
mer ID	:	Drain Bottom Raft-Muneshwara Layout 2nd Main Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	05/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	Drain Bottom Raft-Muneshwara Layout 2nd Main Road	M20	28/06/2022	05/07/2022	151.99 X 151.39 X 149.06	23010	8.280	427.0	18.6	18.5
	Drain Bottom Raft-Muneshwara Layout 2nd Main Road	M20	28/06/2022	05/07/2022	151.29 X 149.99 X 150.00	22692	8.492	425.0	18.7	
3	Drain Bottom Raft-Muneshwara Layout 2nd Main Road	M20	28/06/2022	05/07/2022	151.37 X 150.96 X 150.51	22850	8.199	418.0	18.3	

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ಜ ಜ.ಎಂ.ಕಿ. ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-09-28-34
er	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
s	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Name	:	Asphalting of Balance roads at Muneshwara Layout in ward No-03 of Yelahanka satellite town sub Division.
	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
ner's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
e of Sample	:	Sample supplied by Agency
le Condition	:	Satisfactory
of Receipt	:	01-07-2022
mer ID	:	Drain Bottom Raft-Muneshwara Layout 5th Cross Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	27/07/2022

Date: 27/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Raft-Muneshwara Layout 5th Cross Road	M20	29/06/2022	27/07/2022	149.77 X 150.02 X 151.18	22468	8.468	526.7	23.4	23.2
2	Drain Bottom Raft-Muneshwara Layout 5th Cross Road	M20	29/06/2022	27/07/2022	150.42 X 149.75 X 150.31	22527	8.819	500.7	22.2	
3	Drain Bottom Raft-Muneshwara Layout 5th Cross Road	M20	29/06/2022	27/07/2022	150.29 X 151.93 X 151.29	22833	8.196	544.4	23.8	

The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sq Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

Lab ID	:	CP-2022-09-28-34
Customer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance roads at Muneshwara Layout in ward No-03 of Yelahanka satellite town sub Division.
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-2022
Customer ID	:	Drain Bottom Raft-Muneshwara Layout 4th Cross Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	27/07/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Muneshwara Layout 4th Cross Road	M20	29/06/2022	27/07/2022	150.16 X 151.27 X 151.00	22714	9.030	523.6	23.1	23.0
2	Drain Bottom Raft-Muneshwara Layout 4th Cross Road	M20	29/06/2022	27/07/2022	149.36 X 151.77 X 150.50	22667	8.722	503.2	22.2	
3	Drain Bottom Raft-Muneshwara Layout 4th Cross Road	M20	29/06/2022	27/07/2022	151.04 X 150.81 X 151.22	22779	8.401	539.9	23.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-09-28-34
ıer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
ıs	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
t Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
r	:	Sri. Rajeswaren Sathcesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
ner's Reference	:	BBMP/EE/YNK.D/EPMT-I/W.O/20/2022-23
: of Sample	:	Sample supplied by Agency
e Condition	:	Satisfactory
f Receipt	:	04-07-2022
mer ID	:	Drain Bottom Raft-Muneshwara Layout 5th Cross Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
of test	:	08/07/2022

Date: 08/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-Muneshwara Layout 5th Cross Road	M20	01/07/2022	08/07/2022	150.43 X 151.15 X 149.19	22737	8.910	425.9	18.7	18.6
Drain Bottom Raft-Muneshwara Layout 5th Cross Road	M20	01/07/2022	08/07/2022	151.37 X 149.28 X 149.21	22597	8.727	413.0	18.3	
Drain Bottom Raft-Muneshwara Layout 5th Cross Road	M20	01/07/2022	08/07/2022	149.65 X 150.28 X 149.15	22489	8.478	422.6	18.8	

e results obtained are satisfactory as per standard requirements.

:

results pertain to the samples received and tested.

nformation furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-09-28-34
	:	Date: 28/07/2022
	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
me	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
's Reference	:	BBMP/EE/YNK D/EPMT-4/W.O'20/2022-23
Sample	:	Sample supplied by Agency
ondition	:	Satisfactory
teceipt	:	04-07-2022
r ID	:	Culvert Bottom Raft- 4th Cross Road
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
test	:	28/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Raft-4th Cross Road	M20	30/06/2022	28/07/2022	149.66 X 149.91 X 151.66	22436	8.921	519.2	23.1	23.0
Culvert Bottom Raft-4th Cross Road	M20	30/06/2022	28/07/2022	150.96 X 150.31 X 151.31	22690	9.093	508.7	22.4	
Culvert Bottom Raft-4th Cross Road	M20	30/06/2022	28/07/2022	149.39 X 149.76 X 150.79	22373	9.042	525.6	23.5	

e results obtained are satisfactory as per standard requirements

e:

results pertain to the samples received and tested

nformation furnished by Customer/Representative

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mples will be disposed after 30 days from the date of issue of test certificate

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TEST RESULTS OF GRADATION FOR WMM

ab ID	:	CP-2022-09-28-34
ustomer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore. Date: 06-07-2022
ddress	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
roject Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
gency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK D/EPMT-I/W.O/20/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-07-2022
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Certificate No.: TC-5548

ETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

ID	:	CP-2022-09-28-34 Date: 06-07-2022
omer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
lress	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
ject Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
ency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
stomer Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/20/2022-23
urce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
ate of Receipt	:	04-07-2022
ype of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
ate of Test	:	04-07-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

	:	CP-2022-09-28-34 **Date: 14-07-2022**
ıer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
ss	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
:t Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
:y	:	Sri. Rajeswaren Satheesh. Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560054
ımer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
ce of Sample	:	Sample supplied by Agency
of Receipt	:	13-07-2022
e of Mix	:	DBM (Dense Bituminous Macadam)-Muneshwara Layout 2nd Main Road
e of Test	:	13-07-2022

ıo	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.6
4	Average percentage	%	4.7	

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Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

ID	:	CP-2022-09-28-34 Date: 14-07-2022
omer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
ress	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
ect Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
ncy	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
stomer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
arce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
te of Receipt	:	09-07-2022
ype of Mix	:	BC-Plant (Bituminous Concrete)
ate of Test	:	09-07-2022
ven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Certificate No.: TC-5548

L REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

	:	CP-2022-09-28-34 **Date: 14-07-2022**
	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore.
	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
ıe	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
Sample	:	Sample supplied by Agency
ndition	:	Satisfactory
ceipt	:	09-07-2022
lix	:	BC (Bituminous Concrete)
est	:	09-07-2022

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
artical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
pecific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
ater Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

sults obtained are satisfactory as per standard requirements.

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rmation Furnished by Customer/ Representative
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ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

D : CP-2022-09-28-34

Date: 16-07-2022

omer : Assistant Executive Engineer, Yelal anka satellite Sub Division, BBMP, Bangalore.

ress : Yelahanka satellite Sub Division, BBMP, Bangalore.

ect Name : Asphalting of Balance roads at Mureshwara layout in ward No-03 of Yelahanka satellite town sub Division.

ncy : Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064

stomer Reference : BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23

arce of Sample : Sample supplied by Agency

te of Receipt : 15-07-2022

ype of Mix : BC (Bituminous Concrete)- Muneshwara Layout 2nd Main Road

ate of Test : 15-07-2022

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT ON BITUMEN

Format No: CP/TF/01

Lab ID	:	**CP-2022-09-28-34**
Customer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore. **Date: 09-07-2022**
Address	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No.600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-4/W.O/20/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-2022
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	06-07-2022

Test Results

SLno	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

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****End of Report****

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Certificate No.: TC-5543

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	CP-2022-09-28-34
Customer	:	Assistant Executive Engineer, Yelahanka satellite Sub Division, BBMP, Bangalore. **Date: 16-07-2022**
Address	:	Yelahanka satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub Division.
Agency	:	Sri. Rajeswaren Satheesh, Sathya Constructions, No 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-4/W.O/20/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-2022
Type of Mix	:	Tack coat
Date of Test	:	15-07-2022

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq m	0.256	0.256
7	Average	Kg/sq m	0.256	
8	Specified Limit	Kg/sq m	0.250 Kg/sq m	

* The results obtained are satisfactory as per standard requirements.

Note:-
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